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NPIC/TSSG/RED-082-70
6 March 1970

MEMORANDUM FOR THE RECORD

SUBJECT: CCB Meeting of 10-12 February 1970

1. Color Discussion [] reported that the Color Task Force, established at [] request, had completed an interim report. He reviewed some of the conclusions and recommendations as follows:

a. NPIC be given the responsibility for standardizing color terminology.

b. NPIC work with EXRAND to establish Color Keys.

c. [] should direct the intelligence evaluation of color.

d. Resolution of the SO-242 color original is no longer significantly less than the black and white image on the [] Mr. [] said that he had briefed [] on the report and that [] had supported their recommendations wholeheartedly. On the basis of this and other information, [] is convinced the utilization of color is gaining more and more momentum. In keeping with this, [] requested an additional copy of the [] SO-242 Color Status Report for the Research & Engineering Division.

e. The Color Task Force should be extended 6 months.

2. RED Dot Program - [] (OSA) and [] (OSP). [] is responsible for the scheduling of the aircraft used in this program. Their discussion surfaced the following points:

a. [] has primary responsibility for the entire program.

b. [] is aware that there is a dire need for more specific objectives and plans in the execution of this program and intends to correct these deficiencies.

c. At the present time there are "14 pages" of targets laid on by the analysts for acquisition in this program. [] has been requested to determine the priorities within this list.

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25X1 d. NPIC/TSSG/APSD [] has the responsibility for the basic evaluation of the coverage. He was directed to compile a summary twix citing those targets that have been acceptably covered to date.

25X1 e. Clarification of the following criteria for circumstances of satisfactory acquisition before the fact was requested by Mr. []

- (1) Weather conditions
- (2) Corn Targets Display
- (3) Sun Angle
- (4) Status of domestic ground truth
- (5) Minimum percentage of clear targets on flight path

25X1 f. [] NPIC, stated that his present knowledge of the program indicated that there was poor coordination with respect to the requirements for read-out that were expected from the Center.

25X1 [] replied that he was aware of this and would be taking steps to correct the situation.

25X1 3. Production Oriented Color Enlarger (PAR 176B) - [] NPIC. [] communicated the specifications for which he had obtained general concurrence from appropriate NPIC components as follows:

- a. Magnification 3X
- b. Easel Film Size 9 1/2" Roll
- c. Easel Film Format 9" x 18"

25X1 Discussion. Inspite of the fact that these specifications were within the range [] had previously stated, with the exception of the 18" dimension of the 9" x 18" format, [] representatives now state that they may be very difficult to achieve. It appears that the magnification may have to be larger, say a minimum of 5X, and that the length of the format will have to be reduced down to about 12"-14" [] uses a rule of thumb figure of 21,000 line pairs as the maximum number of elements that can be reproduced at high performance through an optical system).

25X1 NOTE: In the course of this discussion, [] and other [] personnel, as well as [], highly commended the performance of the NPIC Photo Lab in the production of color prints and briefing materials []

25X1 4. Narrow Band Color Viewer (PAR 177S) [] advised the CCB that this matter had been investigated by [] of the Research & Engineering Division, who had determined that the objectives

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for this study are a valid area for research and that to the best of his ability to determine in this time frame, the answers to this research have not been previously determined. Since it relates directly to NPIC functions served by the Research & Engineering Division, it has a high interest in this project; accordingly, [] requested permission for RED personnel to monitor this project if it is approved, and offered to provide feedback concerning its progress to the subsequent CCB meetings. He pointed out that [] highly recommended the addition of an experimental psychologist to the [] staff involved in this project. The CCB concurred in these recommendations and requested that [] monitor this project and comment on it to the CCB from time to time. [] proposed effort was approved at the [] level.

5. Video Color Analyzer (PAR 175B) - [] Briefing. Subjective evaluation and adjustment of color imagery can be successfully made on the video color analyzer. Following are some specific recommendations for utilizing this equipment in relationship to reconnaissance exploitation color requirements.

a. Phase I - [] 10 months' effort. Make minimum modification to the commercially available video color analyzer to provide capability for handling roll film; evaluate results relative to exploitation community requirements. Assuming satisfactory results, proceed to Phase II.

b. Phase II - [] 12 months' effort. Modify equipment to obtain higher performance and automation necessary for coordinating color evaluation with production requirements. This approach was approved by the CCB.

6. Contact Printing Distortion - [] This was a wrap-up briefing for previous distortion studies that [] had made which were related to mapping community interest. [] again brought up the issue of NPIC's interest in distortion over much smaller distances--in the order of 25-100 micrometers. The CCB tasked [] to look into this matter and prepare a PAR for further evaluation of this distortion for presentation at the next meeting.

7. Duplication Studies (PAR 172S) - [] Very significant efforts are going on in both places. These are being coordinated by [] This field of study does not appear to be adequately comprehended in the RED R&D program. Objective and subjective evaluation correlation is an example of areas of mutual interest and pursuit as well as detailed analysis in shadow areas. [] is working in all of these areas at CCB direction and at this time the coordination appears to be limited to APSD.

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8. Detection and Recognition Phenomena (PAR 24-9-9S) - [REDACTED]

[REDACTED] presented a briefing on study work he has been doing through the utilization of 10 geometric shapes such as circles, squares, rectangles, trapezoids, etc. These targets are generated to be of equal area; they are reproduced in random orientation in a large matrix arrangement on the film system to be tested. Their size is a function of the grain size in the film. In SO-242 and 3404 materials they are approximately 2.5 micrometers maximum dimension. When these targets were reproduced under similar conditions on SO-242 color material and 3404 black and white material the incidences of recognition were significantly higher on the SO-242 material than on the 3404. This was one of the most significant developments in the area of recognition evaluation techniques that I have seen in recent years. I recommend that [REDACTED] and others interested in such matters get in touch with [REDACTED] and get a first hand briefing on the subject. Incidentally, a briefing will be given to the [REDACTED] Color Task Force some time in the near future.

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NPIC/TSSG/RED [REDACTED] (6 March 1970)

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